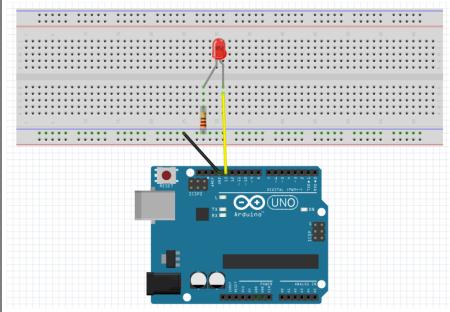


Activity 2: Blink an external LED

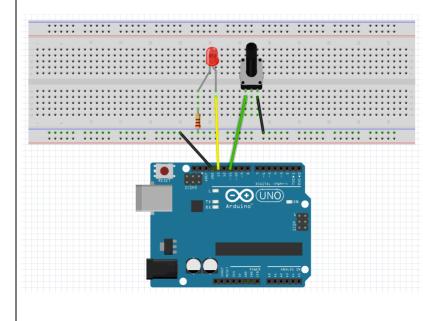
Resistor	Gnd
LED	13

Note: Longer leg connected to pin 13



Activity 3: Controlling an LED with a button

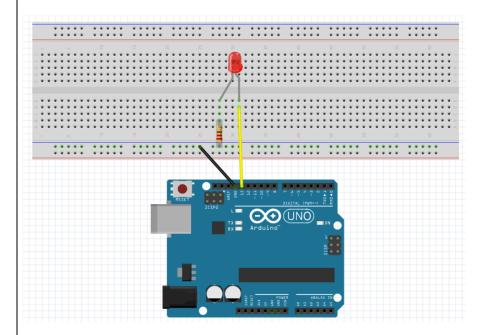
Resistor	Gnd
LED	13
Button	11





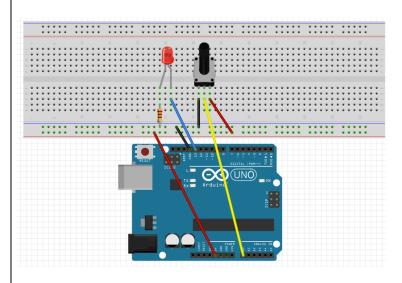
Activity 4: Controlling an LED with PWM

Resistor	Gnd
LED	13
Button	11



Activity 5: Controlling an LED with a potentiometer

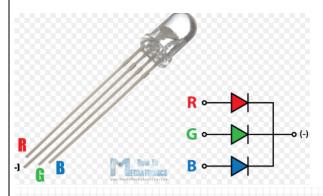
Resistor	GND
LED	13
Potentiometer - middle	A0
Pot – one side	5v
Pot – other side	GND

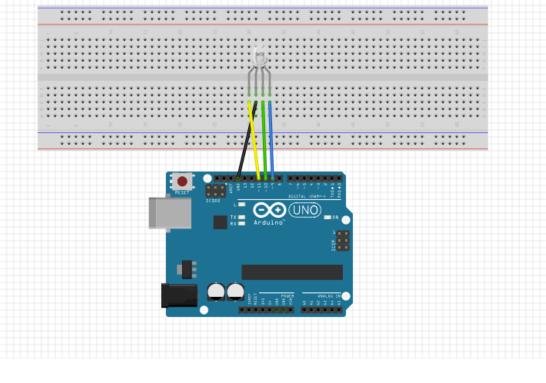




Activity 6: Rainbow colours (RGB LED)

LED	13
Potentiometer - middle	A0
Pot – one side	5v
Pot – other side	GND

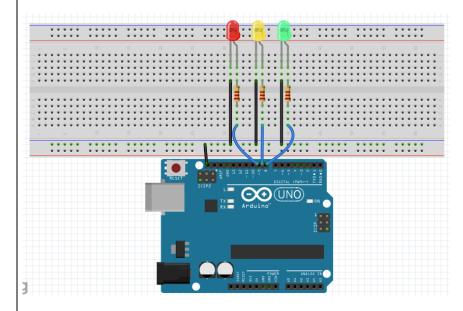






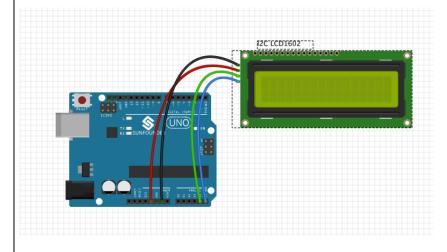
Activity 7: Serial monitor

LED - red	10
LED - yellow	11
LED - green	12



Activity 8: LCD Welcome screen

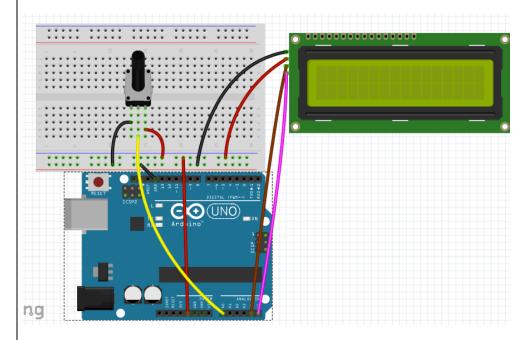
VCC	GND
GND	5v
SDA	A4
SCL	A5





Activity 9: Voltmeter

VCC	GND
GND	5v
SDA	A4
SCL	A5
Potentiometer - middle	A0
Pot – one side	5v
Pot – other side	GND



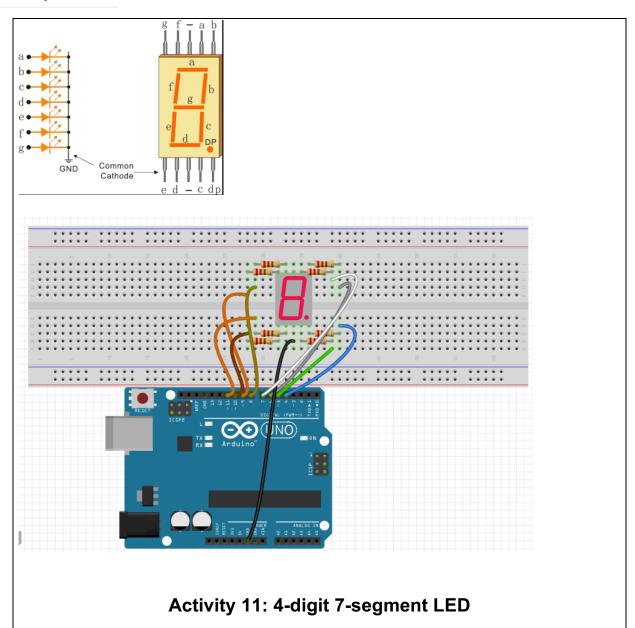
Activity 10: 7-Segment LED

7 – Segment display	Uno
а	7
b	6
С	5
d	11
е	10
f	8
g	9
dp	4
"_"	GND
Fook accoment is connect	tad through a register to

Each segment is connected through a resistor to the corresponding Uno pin

The pin diagram for the 7-Segment LED is shown below, showing which pin controls which segment.

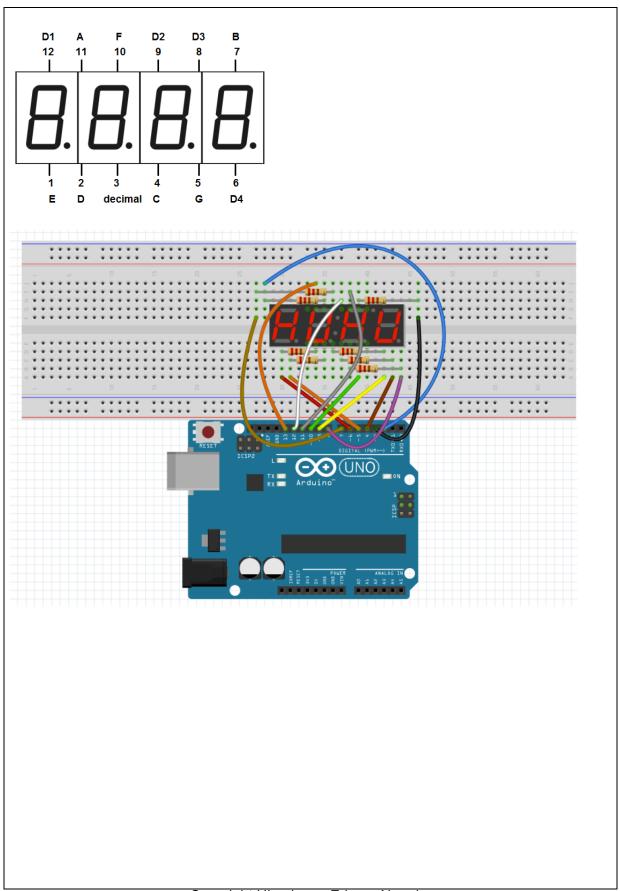




2	
2	
3	
4	
5	
6	
7	
8	
9	
13	
12	
11	
10	
Each segment is connected through a resistor to the corresponding Uno pin	

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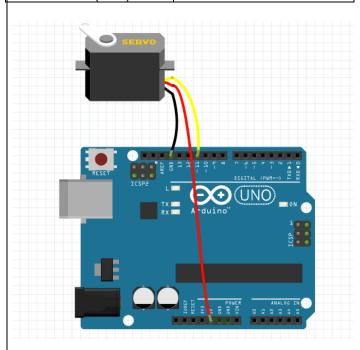






Activity 12: Servo motor

GND (Brown)	GND
Signal (Yellow)	9
Power (Red)	5v



Activity 13: Keypad

Keypad	
Column / Row	Uno
1	11
2	10
3	9
4	8
5	7
6	6
7	5
8	4
LCD screen	
VCC	5v
GND	GND
SDP	A4
SCL	A5





Keypad supplied shown left.

